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DOcket No.: 066821-0276

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Reed, John C., et al.
Appl. No. : 10/782,627
Filed : February 18, 2004
Title : NOVEL BAG PROTEINS AND
NUCLEIC ACID MOLECULES
ENCODING THEM

Grp./A.U. : 1643
Examiner: Rawlings, Stephen L.

Customer No.: 41552
Confirmation No.: 5834
CERTIFICATE OF MAILING (37 CFR. § 1.8(a))

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1450 on Mar 16, 2007.

Lori Ford

TRANSMITTAL

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith is an Information Disclosure Statement in the above-identified application.

Also attached: 1 Information Disclosure Statement
1 PTO Form 1449 (3 pages)
0 References

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 502624, including any filing fees under 37 CFR 1.16 for presentation of extra claims and any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

MCDERMOTT WILL & EMERY LLP

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Date: March 13, 2007

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Docket No.: 066821-0276

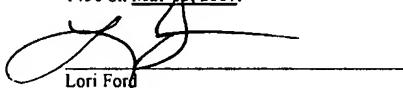
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Lori Ford

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

The references were cited by or submitted to the U.S. Patent and Trademark Office in parent application Serial No. 09/394,142, filed September 9, 1999, which is relied upon for an earlier filing

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date under 35 USC 120. Thus, copies of these references are not attached. 37 CFR 1.98(d).

Applicants will be pleased to provide copies of the references if requested by the Examiner.

Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 502624 and please credit any excess fees to such deposit account.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP



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**Please recognize our Customer No. 41552
as our correspondence address.**



SHEET 1 OF 3

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)				ATTY. DOCKET NO. 066821-0276	SERIAL NO. 10/782,627	
				APPLICANT Reed, John C., et al.		
				FILING DATE February 18, 2004	GROUP 1643	
U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code ₂ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	1.	US 5,539,094	07/23/1996	Reed et al.		
	2.	US 5,650,491	07/22/1997	Reed et al.		
	3.	US 5,652,223	07/29/1997	Kohn et al.		
FOREIGN PATENT DOCUMENTS						
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes -Number & Kind Codes (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No
	4.	WO 95/13292	5/18/95	La Jolla Cancer Research Foundation		
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
	5.	Ausubel et al., <u>Current Protocols in Molecular Biology</u> , John Wiley and Sons, New York (1994)				
	6.	Database, Genbank-EST, National Center for Biotech. Info., Accession No. AA693697, Hillier et al., "WashU-NCI human EST project," 16 December 1997				
	7.	Database, Genbank-EST, National Center for Biotech. Info., Accession No. AA456862, NCI_CGAP, "National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index," 15 August 1997				
	8.	Database, Genbank-EST, National Center for Biotech. Info., Accession No. G29287, Myers, 4 October 1996.				
	9.	Database, Genbank-EST, National Center for Biotech. Info., Accession No. G06974, Hudson, "Whitehead Institute/MIT Center for Genome Research," 19 October 1995				
	10.	Database, Genbank-EST, National Center for Biotech. Info., Accession No. V81267, OTSUKA PHARM CO. LTD., "New Bcl-2 interaction protein gene (Bis)-useful for elucidation of the molecular mechanism of apoptosis, and in diagnosis, prevention and treatment of diseases," 15 December 1998.				
	11.	Database, Genbank-EST, National Center for Biotech. Info., Accession No. T19051, Matsubara et al., "Identifying gene signatures in 3'-directed human cDNA library," 01 June 1995				
	12.	Database, Genbank-EST, National Center for Biotech. Info., Accession No. Q90296, LA JOLLA CANCER RESEARCH FOUNDATION, "Human Bcl-2 associated protein BAG-1 cDNA," 18 May 1995.				
	13.	Ellis, "Molecular chaperones: Avoiding the crowd," <u>Curr. Biol.</u> 7:R531-R533 (1997).				
	14.	Grunert and Jackson, "The immediate downstream codon strongly influences the efficiency of utilization of eukaryotic translation initiation codons," <u>EMBO J.</u> 13:3618-3630 (1994).				
EXAMINER				DATE CONSIDERED		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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(PTO-1449)		FILING DATE February 18, 2004	GROUP 1643
	<p>15. Hillier, L., et al., Unpublished, 1997, Database GenBank EST Accession No. AI815738, au43g01.y1 "Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2517552, 5'similar to TR:075315"; see USPTO Search Report US-09-394-142b-2_copy_1_85, result 1.</p> <p>16. Hillier, L., et al., Unpublished, 1997, Database GenBank EST Accession No. AI815738, au43g01.y1 "Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2517552, 5'similar to TR:075315"; see USPTO Search Report US-09-394-142b-2_copy_57_89, result 2.</p> <p>17. Hillier, L., et al., Unpublished, 1997, Database GenBank EST Accession No. AI815738, au43g01.y1 "Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2517552, 5'similar to TR:075315"; see USPTO Search Report US-09-394-142b-1_copy_272_319, result 3.</p> <p>18. Höhfeld et al., "Hip, a novel cochaperone involved in the eukaryotic Hsc70/Hsp40 reaction cycle," <i>Cell</i> 83:589-598 (1995).</p> <p>19. Höhfeld et al., "GrpE-like regulation of the Hsc70 chaperone by the anti-apoptotic protein BAG-1," <i>EMBO J.</i> 16:6209-6216 (1997).</p> <p>20. Huse et al., "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda," <i>Science</i> 246:1275-1281 (1989).</p> <p>21. Innis et al., <i>PCR Protocols - A guide to methods and applications</i>, Academic Press, Inc., pp. 40-41 (1990).</p> <p>22. Kozak, "Recognition of AUG and alternative initiator codons is augmented by G in position +4 but is not generally affected by the nucleotides in positions +5 and +6," <i>EMBO J.</i> 16:2482-2492 (1997).</p> <p>23. Matsuzawa et al., "p53-inducible human homologue of Drosophila seven in absentia (Siah) inhibits cell growth: suppression by BAG-1," <i>EMBO J.</i> 17:2736-2747 (1998).</p> <p>24. Minami et al., "Regulation of the heat-shock protein 70 reaction cycle by the mammalian Dnaj homolog, Hsp40," <i>J. Biol. Chem.</i> 271:19617-19624 (1996).</p> <p>25. Nielsen, P.E. et al., "Peptide nucleic acids (PNAs): Potential anti-sense and anti-gene agents," <i>Anticancer Drug Des.</i> 8:53-63 (1993).</p> <p>26. Prapapanich et al., "Mutation of Hip's carboxy-terminal region inhibits a transitional stage of progesterone receptor assembly," <i>Mol. & Cell Biol.</i> 18:944-952 (1998).</p> <p>27. Sambrook et al., <i>Molecular cloning: A laboratory manual</i>, 2nd Edition, Cold Spring Harbor Laboratory Press, (1989).</p> <p>28. Search Report "us-09-394-142b-2.rge," pp. 3 and 4; see result 3.</p> <p>29. Sudol, "The WW module competes with the SH3 domain?," <i>TIBS</i> 21:161-163 (1996).</p> <p>30. Takayama, S, Direct Submission, Sep. 03, 1997, Database GenBank Accession No. AF022224, "Homo sapiens Bcl-2-binding protein (BAG-1) mRNA, complete cds"; see USPTO Search Report Results of US-09-394-142b-1.rge (result 1).</p> <p>31. Takayama, S, Direct Submission, Sep. 03, 1997, Database GenBank Accession No. AF022224, "Homo sapiens Bcl-2-binding protein (BAG-1) mRNA, complete cds"; see USPTO Search Report Results of US-09-394-142b-1_copy_46_1291.rge (result 1).</p> <p>32. Takayama, S, Direct Submission, Sep. 03, 1997, Database GenBank Accession No. AF022224, "Homo sapiens Bcl-2-binding protein (BAG-1) mRNA, complete cds"; see USPTO Search Report Results of US-09-394-142b-2_copy_1_85.rge (result 2).</p>		
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	34. Takayama, S, Direct Submission, Sep. 03, 1997, Database GenBank Accession No. AF022224, "Homo sapiens Bcl-2-binding protein (BAG-1) mRNA, complete cds"; see USPTO Search Report Results of US-09-394-142b-1_copy_272_319.rge (result 2).		
	35. Takayama et al., "Cloning of cDNAs Encoding the Human BAG1 Protein and Localization of the Human BAG1 Gene to Chromosome 9p12," <i>Genomics</i> , 35:494-498 (1996).		
	36. Takayama et al., "BAG-1 modulates the chaperone activity of Hsp70/Hsc70," <i>EMBO J.</i> 16:4887-4896 (1997).		
	37. Takayama et al., "Expression and Location of Hsp70/Hsc-Binding Anti-Apoptotic Protein BAG-1 and Its Variants in Normal Tissues and Tumor Cell Lines," <i>Canc. Res.</i> , 58:3116-3131 (1998).		
	38. Takayama et al., "An Evolutionarily Conserved Family of Hsp70/Hsc70 Molecular Chaperone Regulators," <i>J. Biol. Chem.</i> , 274(2):781-786 (1999).		
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	40. Xie et al., "Acidic pH promotes dimerization of Bcl-2 family proteins," <i>Biochem.</i> 37:6410-6418 (1998).		
	41. Zeiner, M, Direct Submission, Jul. 28, 1994, Database GenBank Accession No. Z35491, "H. sapiens mRNA for novel glucocorticoid receptor-associated protein"; see USPTO Search Report US-09-394-142b-2_copy_1_85.rge, result 4.		
	42. Zeiner, M, Direct Submission, Jul. 28, 1994, Database GenBank Accession No. Z35491, "H. sapiens mRNA for novel glucocorticoid receptor-associated protein"; see USPTO Search Report US-09-394-142b-2_copy_57_89.rge, result 4.		
	43. Zeiner, M, Direct Submission, Jul. 28, 1994, Database GenBank Accession No. Z35491, "H. sapiens mRNA for novel glucocorticoid receptor-associated protein"; see USPTO Search Report US-09-394-142b-1_copy_272_8319.rge, result 4.		
	44. Zeiner et al., "Mammalian protein RAP46: an interaction partner and modulator of 70 kDa heat shock proteins," <i>EMBO J.</i> 16:5483-5490 (1997).		
	45. Zeiner and Gehring, "A protein that interacts with members of the nuclear hormone receptor family: Identification and cDNA cloning," <i>Proc. Natl. Acad. Sci. USA</i> 92:11465-11469 (1995).		
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